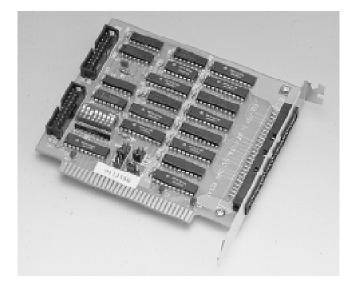


24-bit Digital I/O Card



Features

- · 24 digital I/O lines
- · Emulates 8255 PPI mode 0
- · Buffered circuits for higher driving capacity than the 8255
- · Interrupt handling
- · Output status readback
- · Pin compatible with Opto-22 I/O module racks

Introduction

The PCL-724 offers 24 programmable digital I/O lines. Each port emulates the operation of an 8255 Programmable Peripheral Interface (PPI) chip in mode 0, but provides a higher driving capacity than the 8255.

The card's DIO ports are combined into 8-bit ports. You can configure each port individually by software for either input or output. The card can directly interface with SSR module carrier boards through a 50-pin Opto-22 compatible connector.

These two cards are low-cost alternatives to the PCL-722. Like the PCL-722, they provide a readback feature which lets you monitor the status of the output by reading back the output port directly.

Applications

- Digital I/O control
- · Industrial monitoring and control
- · Interfacing with parallel I/O devices
- · Interfacing with Opto-22 compatible I/O module racks

Specifications

- I/O lines: 24
- · Programming mode: 8255 PPI mode 0
- Interrupt: Bit 0 of one port can generate an interrupt to IRQ2 ~ 7
- Interrupt triggering: Rising or falling edge triggering, jumper-selectable
- Digital output: Logic 0: 0.4 V max. @ 24 mA (sink) Logic 1: 2.4 V min. @ 15 mA (source)
- Digital input: Logic 0: 0.4 V max. Logic 1: 2.4 V min.

General

- Power consumption:+5 V @ 0.5 A (typical) +5 V @ 0.8 A (max.)
- Operating temperature: 0 ~ +60° C (32 ~ 140° F)
- Storage temperature: -20 ~ +70° C (-4 ~ 158° F)
- Operating humidity: 5 ~ 95% RH non-condensing (refer to IEC 68-2-3)
- · Connectors: 50-pin male ribbon-cable connector
- Dimensions: 125 mm (L) x 100 mm (H) (4.9" x 3.9")

Pin Assignments

PC 7	1	2	GND
PC 6	3	4	GND
PC 5	5	6	GND
PC 4	7	8	GND
PC 3	9	10	GND
PC 2	11	12	GND
PC 1	13	14	GND
PC 0	15	16	GND
PB 7	17	18	GND
PB 6	19	20	GND
PB 5	21	22	GND
PB 4	23	24	GND
PB 3	25	26	GND
PB 2	27	28	GND
PB 1	29	30	GND
PB 0	31	32	GND
PA 7	33	34	GND
PA 6	35	36	GND
PA 5	37	38	GND
PA 4	39	40	GND
PA 3	41	42	GND
PA 2	43	44	GND
PA 1	45	46	GND
PA 0	47	48	GND
+5 V	49	50	GND

Ordering Information

PCL-724: 24-bit digital I/O card and manual PCL-10150-1.2: 50-pin flat cable, 1.2 m PCLD-782B: 24/16-ch. opto-isolated digital input board PCLD-785B: 24/16-ch. relay output board PCLD-7216: 16-ch. carrier board for SSR I/O modules PCLD-885: 16-ch. power relay (Form A) output board PCLS-OCX: ActiveX Control for data acquisition and control. ADAM-3950: 50-pin flat cable wiring terminal for DIN-rail mounting